SOV/137-57-11-22251

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 226 (USSR)

AUTHORS: Tovpenets, Ye.S., Sin'kovskaya, G.N.

TITLE: Steel Analysis by Dilatometry and X-Ray Diffraction Study

(Dilatometricheskiy i rentgenostrukturnyy analizy staley)

PERIODICAL: Tr. Donetsk. industr. in-ta, 1957, Vol 19, pp 59-64

ABSTRACT: Dilatometry and X-ray diffraction analysis were used to investigate the effects of chemical composition, conditions of

cooling, and the homogeneity of steel upon the decomposition of supercooled austenite (DSA) in alloyed structural steels of the following % composition: C 0.32 - 0.42, Mn 0.40 - 0.72, Si 0.25 - 0.38, P 0.035, S 0.030 - 0.040, Cr 0.70 - 2.44, NiO 3.82, Mo 0 - 0.43, V 0 - 0.17. The higher the degree of alloying of the steel, the lower the temperatures of onset and termination of DSA. As the homogeneity of the steel declines, the temperature of termination of DSA declines toward a lower temperature region. A fluctuating cooling regimen shifts the

temperature region. A fluctuating cooling regimes. The end of DSA in the region toward higher temperatures. The temperature of reheating in a fluctuating cooling procedure temperature of reheating in a fluctuating of the steel. The

Card 1/2 temperature of reneating in a fluctuating cooling process. The

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Steel Analysis by Dilatometry and X-Ray Diffraction Study

temperature of supercooling must be lower than the temperature of onset of DSA, but higher (by 20-25°C) than the temperature of onset of the martensite transformation. A fluctuating cooling regimen makes for the most complete DSA in the region of the pearlitic transformation.

N.K.

Card 2/2

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756420010-5

TOUTEN ISEV, YU.K. 8/137/61/000/010/020/056 A006/A101 Goryanova, N.A., Averkiyeva, G.E., Sharavskiy, P.V., Tovpentsev, AUTHORS: Yu,K. Investigation of quaternary alloys based on indium antimonide and TITLE: cadmium telluride FERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 10, 1961, 44, abstract 100344 (V ab. "Fizika i khimiya", Leningrad, 1961, 22 - 25) TEXT: The authors present brief information on investigating a pseudo-tinary section Gire-InSb of the quaternary Gi-Te-In-Sb system. The alloys investigated were prepared by direct fusion of the initial materials in evacuated Quartz ampoules and were subjected to metallographical analysis. Simultaneously microhardness was determined. It was established that in the range of 95 -100% InSb concentration there is a homogeneous area with ZnS structure. In the other points of the system two phases were revealed whose microhardness exceeds that of the initial components - CdTe and InSb. A. Nashel'skiy [Abatracter's note: Complete translation] Card 1/1

THE REPORT OF THE PROPERTY OF

on the dissociation of Hg in HgTe. V. A. Khabarova, P. V. Sharavskiy.

on the nature of solid solutions of CdTe in InSb. E. N. Khabarov, P. V. Sharavskiy.

Preparation and electrical properties of solid solutions of the system HgTe-CdTe. Yu. K. Tovpentsev, P. N. Sharavskiy.

Some physical properties of HgTe. L. A. Osnach, P. V. Sharavskiy. (Presented by P. V. Sharavskiy--25 minutes).

Report presented at the 3rd National Conference on Semiconductor Compounds, Mishinev, 16-21 Sept 1963

MAPIAN, M.I., GOLD DEHTETN, B.Z., TOVPIK, E.S.

Automatic machine for making cylindrical springs. Stan.i
(MIRA 13:6)
instr. 31 no.4:36-37 Ap '60.
(Machine tools)

S/0119/64/000/002/0012/0013

ACCESSION NR: AP4018073

AUTHOR: Balashova, N. N.; Smagunova, N. A.; Tovpinets, Ye. I.

TITLE: Reducing porosity of nickel coating

SOURCE: Priborostroyeniye, no. 2, 1964, 12-13

TOPIC TAGS: nickel plating, nickel coating, nickel coating porosity, nickel electroplating, electroplating

ABSTRACT: An experimental investigation of the effect of additives to (a) nickel electrolytes or (b) cleaning liquors upon the porosity of nickel coating is described. Cation-active, anion-active, and nonionogen additives were tested; each test was conducted with power on and power off, and the results were evaluated by a microscopic count of visible pores per 1 cm2. These results with additions to the electrolyte are reported:

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ACCESSION NR: AP4018073

Additive:	Pore Count: Power		
·	On	Of. 10-15 sec	
None Sodium lauryi sulfate	500	500	
French tipol	500 500	120 130	

And with additions to cleaning liquors:

Class:	Additive:	Pore Count: Power		
		On	Off	
Cation Anion Nonionogen	None Alkamon D Sodium lauryl sulfate OP-7	500 90 500 28	500 330 390 23	

Card 2/3

ACCESSION NR: AP4018073

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

It is recommended that the parts to be nickel-plated be washed in a water bath to which 1-1.5 g/lit of OP-7 or OP-10 has been added. Orig. art. has: 2 figures

ASSOCIATION: NIIChasprom (Scientific Research Institute of Clock Industry)

SUBMITTED: 00

DATE ACQ: 18Mar64

ENCL: 00

SUB CODE: ML

NO REF SOV: 004

OTHER: 004 '

KEKALO, I.B.; LIVSHITS, B.G.; Prinimala uchastiya: TOVPYGA, O., studentka

Negative \triangle G-effect and the magnetic internal friction in nickel depending on heat treatment. Fiz. met. i metalloved. 14 no.2:223-230 Ag '62. (MIRA 15:12)

1. Moskovskiy institut stali i splavov.
(Nickel—Heat treatment) (Internal friction)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

SAL'NIKOV, L.: TOVSHTEYN, K.

Lowering operation costs at grain receiving stations and flour and feed mills of Odessa Province. Muk-elev.prom. 25 no.1:11 Ja 159.

(MIRA 12:3)

1. Odesskoye oblastnoye upravleniye khleboproduktov. (Odessa Province--Grain trade)

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THE STANDARD AND AND PROPERTY OF THE STANDARD ST

TOVSHTEYN, Konstantin Matveyevich; PLATONOV, A.N., kand. ekon. nauk, red.; VOLKCV, P.N., red.; COLUEKOVA, L.A., tekhn. red.

[Analysis of the managerial operations of grain-receiving enterprises] Analiz khoziaistvennoi deiatel'nosti khlebo-priemnykh predpriiatii. Pod red. A.N.Platonova. Moskva, TSINTI, 1963. 69 p. (MIRA 16:12) (Odessa Province—Grain elevators—Accounting)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

是"在中国出版"的话:"是是一个是一个一个一个

USC!/ineral factories
Eines and Main;

"Mapid Preparations of Cits for Charing Exceptions," t. 1. Laters very, . . . Tevalativesky T. P. Homearcako, 3 pp

"Mornyy Zhurash" Ho 8

Description of mork done by T. A. Literskythiy(a crow in exclotin flocks of a contract ineral litroy. Tabular record of fallillhead of mores for 1247 on a a system of by perment.

PA 1777h

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

TOVSTANOVSKIY, Dmitriy Pavlovich; SHOSTAK, Afanasiy Grigor'yevich; NESTEROV, Petr Grigor'yevich; DUDKO, Viktor Dmitriyevich; AFONINA, G.P., red.izd-va; SHAFETA, S.M., tekhn. red.

[Technical and economic ore mining handbook] Tekhnikoekonomicheskii gorno-rudnyi spravochnik. Kiev, Gostekhizdat USSR, 1963. 316 p. (MIRA 17:3)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

PHOTOCOCCUPANT CONTRACTOR CONTRAC

TOVSTANOVSKIY, Dmitriy Pavlovich; NESTEROV, Petr Grigor'yevich; VOVK, Aleksey Anufriyevich; FILIPPENKO, I.T., inzh., retsenzent; AFONINA, G.P., red.izd-va; SHAFETA, S.M., tekhn. red.

[Labor productivity in Ukrainian mining enterprises]Proizvoditel'nost' truda na gornorudnykh predpriiatiiakh Ukrainy. Kiev, Gostekhizdat, USSR, 1963. 255 p. (MIRA 16:3) (Ukraine-Mining engineering-Labor productivity)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

CIR BEAR CO. TO FINISH THE STORY

KARMAZIN, V.I., doktor tekhn. nauk; MALETSKIY, N.A.; TOVSTANOVSKIT, O.D.

Improvement in the magnetizing roasting of Kerch peninsula ores
in tutular rotary furnaces. Met. 1 gornerud. prom. no.4:64.66
in tutular rotary furnaces. Met. 1 gornerud. (MIRA 18:7)
J1-Ag 164.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

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BUSHUYEV, V.P.; GUBIN, G.V.; GONCHARENKO, Yu.I.; KARMAZIN, V.I.;

MARGULIS, V.S.; MITROV, V.A.; NIKOLAYENKO, N.O.; BOBRUSHKIN, L.G.;

BUROV, A.I.; RYBAKOV, V.N.; SCSHIN, A.F.; TATSIYENKO, P.A.;

TOVSTANOVSKIY, O.D.; YUROV, P.P.; Prinimali uchastiye:

NIFAGINA, A.A.; CHERNYY, I.I.; GERSHOYG, Yu.G.; KOSTIKOV, A.G.;

DOLGIKH, M.A.; MOVSKOVICH, S.A.; STUPIN, D.D.; NEVOYSA, G.G.

Magnetization roasting of Kerch ores in the experimental factory of Kamysh-Burun Combine. Gor. zhur. no.12:30-37 D '62. (MIRA 15:11)

1. Institut Mekhanobrchermet, Krivoy Rog (for Bushuyev, Gubin, Goncharenko, Karmazin, Margulis, Mitrov, Nikolayenko, Nifagina, Chernyy, Gershoyg, Kostikov). 2. Kamyshburunskiy zhelezorudnyy kombinat, Kerch' (for Bobrushkin, Burov, Rybakov, Soshin, Tatsiyenko, Tovstanovskiy, Yurov, Dolgikh, M.A.; Movskovich, S.A.; Stupin, D.D.; Nevoysa).

(Kerch Peninsula—Ore dressing)

(Iron ores)

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1045 TENGO, N.V.

Tovetenko, h.V., Engineer AUTHOR:

128-58-6-9/17

THE RECEIVED AND THE PROPERTY OF THE PROPERTY

TITLE:

Die Casting with Bottom Flaigh-Formung (Lit'ye v kokil'

s nizhey dopressovkey)

PERIODICAL: Liteynoye Proizvodstvo, 1958, ar e, p 27 (USSk)

ABSTRACT:

fress-molds for the production of toys and other objects of rubber or organic materials are usually made of copper alloys. The bottom part of such molds is cut on machine tools and subsequently finished and engraved. The experimental plant "Ukrgromkonstruktor" has developed a technology for making press-molds of silumin and other aluminum alloys, needing little mechanical finishing. The method consists of die casting in a simple way which is described and illustrated by a drawing (Figure 1). The method reduced production costs by 5 times, and increased the output of press-molds by 7 to 8 times. There are 2 figures.

AVAILABLE: Card 1/1

Library of Congress

1. Metals-Casting 2. Die casting-Equipment 3. Aluminum alloys-

Applications 4. Rubber-Molding 5. Plastics-Molding

CIA-RDP86-00513R001756420010-5" APPROVED FOR RELEASE: 04/03/2001

TOVSTDIKO, V.

Let's revive the export of "archa" (juniperus turkestanica).
Vnesh.torg 30 no.5:39-40
(Juniper)

(Juniper)

1.	TOVSTIK,	1.7	E.

- 2. USSR (600)
- 4. Planets, Minor
- 7. Amended constants of planet 1004 Belopolskiya. Biul. Inst. teor. astron. 5 No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

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Proping Coreals. Logominous Ording. Ref ZHUR - BIOLOGIYA, NO. 4, 1959, No. 15583 ABG. JOUR.

AUTHOR

Tovstik, M.G.

INST.

Kirpiz Sei. des. Inst. of heric.

TITLE

.Cowing Later of Winter Went on Follow of

bouthern diretria.

ORIG. RUE. : Byul. Kirm. n.-i. in-to mambed., 1957, 1,

16-21

ARCTRACT

. The optimal dates of 10 to 200 meand terminal dates from 30 Set to 30 Oct. for soving in the south of Hirrizia were found in consequence of plot experiments in 1948-1953 with sowings in pure fallow lands, that studied the sowing

dates every 10 days.

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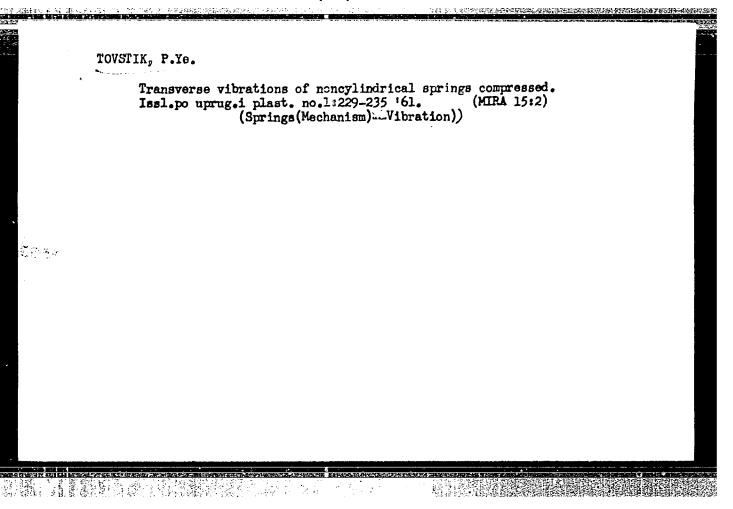
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SOURCE CODE: UR/0043/66/000/003/0077/0082	2
AUTHOR: Sabaneyev, V. S.; Tovstik, P. Ye.	
ORG: none	
TITLE: Oscillations of a circular cylinder near the free surface of a heavy liquid	
SOURCE: Leningrad. Universitet. Vestnik. Seriya matematiki, mekhaniki i astronomii, no. 3, 1966, 77-82	
TOPIC TAGS: incompressible fluid, fluid dynamics, forced vibration, mechanical vibration, cylindric shell structure	
ABSTRACT: The two-dimensional problem of small stationary oscillations of a circular cylinder with its axis parallel to the horizontal surface of an ideal incompressible heavy fluid is investigated. Waves are formed on the free surface of the liquid. Because small oscilations of the cylinder are studied, the surface waves are also small. The Kochin integral equation (N. Ye. Kochin. Sobr. soch., t. II. M., GITTL, 1949) is solved by expansion into a power series in a small parameter. The theoretically derived expressions for the virtual	
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tables, and 2	figures.							
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Card 2/2								

SABANEYEV, V.S.; TOVSTIK, P.Ye.

Effect of longitudinal motion on the transverse vibrations of a solid of revolution in an infinite fluid. Vest. LGU 20 no.19:120-125 165.

Transverse vibrations of cylindrical springs considering longitudinal compression. Issl.po uprug.i plast. no.1:219-228 '61. (MIRA 15:2) (Springs(Mechanism)—Vibration))

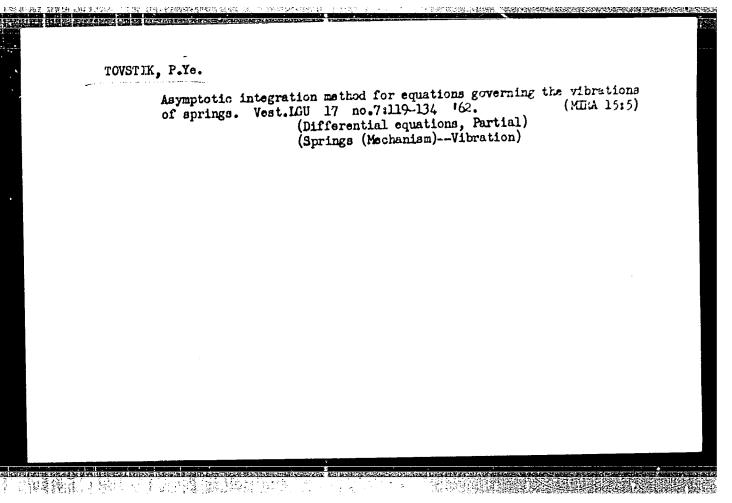


TOVSTIK, P.Ye.

Normal degeneration of boundary value problems. Vest. LGU. 18 (MIRA 16:11)

no.19:124-134 '63.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"



TOWSTIX, P.Ye.

Vibrations of a plane spiral spring. Issl. po uprug. i plast.
no.2:105-120 '63. (MIRA 16:8)

(Elastic rods and wires--Vibration)

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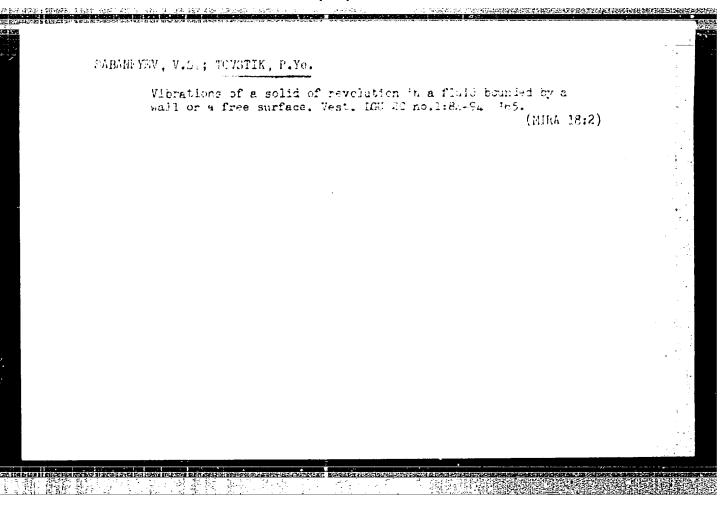
BUKHARINOV, G.N., dots.; L'VOVICH, A.Yu.; SABANEYEV, V.S.; TIKHOLOV, A.A.; TOVSTIK, P.Ye.; TSAR'KOVA, Z.I., red.

[Laboratory manual on the theory of oscillations] Laboratornyi praktikum po teorii kolebanii. Leningrad, Izd-vo Leningr. univ., 1965. 75 p. (MIRA 18:4)

1. Leningrad. Universitet. Matematiko-mekhanicheskiy fakul'tet.

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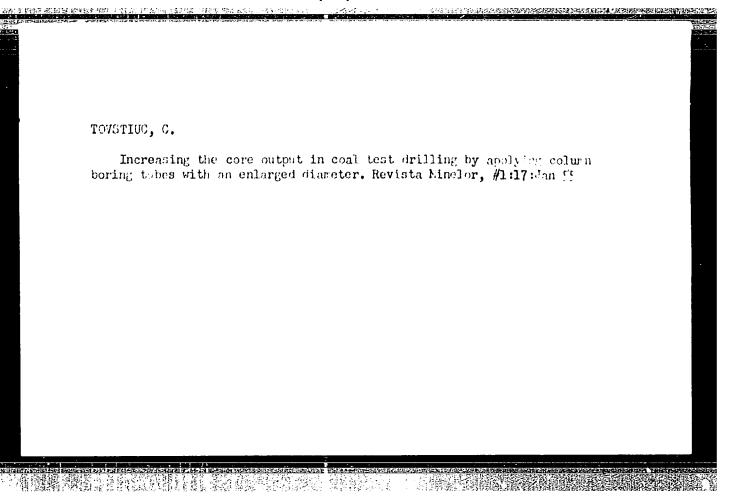
TOVSTIUC, C.

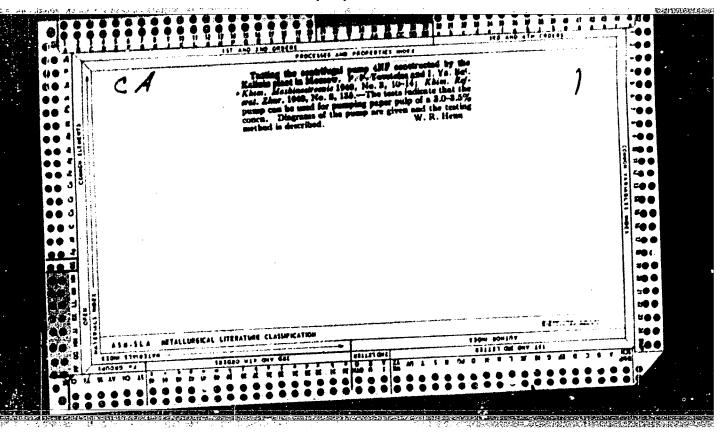
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"New type of bit for a deep borer." (p.95). UHLI (Ministerstvo paliv a evergitiky) Praha, Vol 4, No 3, Mar. 1954.

SO: East European Accessions List, Vol 3, No 8, Aug 1954.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"





TOVSTIK, M.G., Cand Agr Sci -- (disa) "Dates for sowing and norms for seeding winter wheat in the south of the south existing in Frunze, 1958, 15 pp. (Kirguiz Agr Inst) 130 copies (KL, 39-58, 111)

- 55 -

TOVSTIK, P.Ye. (Leningrad) Natural vibrations of a thin spherical dome. Izv. AN SSSR. Mekh. no.6:111-113 N-D 165. (MIRA 18:12)

> CIA-RDP86-00513R001756420010-5" **APPROVED FOR RELEASE: 04/03/2001**

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5/043/62/007/002/006/007

D407/D301

25 4200

Tovstik, P.Ye.

TITLE:

AUTHOR:

Asymptotic method of integrating equations of spring

vibrations

PURIODICAL:

Leningrad. Universitet. Vestnik. Seriya matematiki,

mekhaniki i astronomii, no. 7, 2, 1962, 119 - 134

TEXT: Small Longitudinal-, transverse-, and torsional vibrations of a cylindrical spring are analyzed; the spring is treated as a thin curvilinear rod of circular cross-section, subjected to an axial load and with rigidly clamped ends. A system of differential equations is set up, describing the small forced vibrations of the spring. After transformations, one obtains

$$A_{11}(s) + A_{12}v(s) + A_{13}w(s) = 0,$$

$$A_{12}(s) + A_{22}v(s) + A_{12}w(s) = -\sigma S\omega^2 v(s),$$
(1.11)

$$A_{13}\Upsilon(s) + A_{23}v(s) + A_{33}w(s) = -\sigma S \omega^{3} \left[w(s) - \frac{1}{q_{0}^{2}} \frac{d^{2}w}{ds^{2}} \right],$$

$$T''(t) + \omega^{2}T(t) = 0,$$
(1.12)

Card 1/4

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(2.8)

Asymptotic method of integrating ...

where $\gamma(s, t) = \gamma(s)T(t)$, v(s, t) = v(s)T(t), w(s, t) = w(s)T(t); (1.13)

A_{1j} are linear differential operators; v and w are projections of the displacements; γ is a small angle of rotation of Fresnel's $_2$ trihedron. The problem reduces to determining the eigenvalues $\omega_k^{}$ and eigenfunctions γ_k , v_k and w_k of system (1.11). This is solved by an asymptotic method of integration. It is assumed that the vertical angle δ of the coils is small and the number of coils n is large. The small parameter (2.1)

 $\mu = tg \delta$

is introduced. After transformations, (1.11) become:

(2.7)

 $\begin{array}{c} A_{11}\gamma_{1} + A_{12}v + A_{11}w = 0, \\ A_{12}\gamma_{1} + A_{22}v + A_{23}w = -\frac{1}{4} \frac{v^{2}\lambda^{2}v}{(1 - \rho^{2})}, \\ A_{13}\gamma_{1} + A_{22}v + A_{23}w = -\frac{v^{2}\lambda^{2}v}{(1 - \rho^{2})}, \\ \lambda^{2} = \frac{\sigma S w^{2}}{\mu^{2}q_{0}^{4}}, \quad p = \frac{d}{ds_{1}}, \quad \gamma_{1} = \frac{\gamma}{q_{0}}, \end{array}$

where

and the operators Aij are given by expressions. The unknown func-Card 2/4

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S/043/62/007/002/006/007 D407/D301

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tions are expanded in series in μ . After calculations, one obtains the general solution of system (2.7), viz:

$$\gamma(s) = \sum_{i=1}^{4} C_{i} \gamma_{i}(z) + \sum_{i=1}^{4} (C_{i} \gamma_{i+4}(s) + C_{i} \gamma_{i+8}(s)), \qquad (2.23)$$

with analogous expressions for v(s) and w(s). To determine the constants C_i , \bar{C}_i and \bar{C}_i , (i = 1, 2, 3, 4), one obtains a system of 12 linear homogeneous equations. For the existence of a nonvanishing solution it is necessary that the determinant Δ of this system be zero. With μ = 0, the determinant decomposes into the product

$$\Delta = \Delta_1 \Delta_2 \Delta_3^2 \Delta_4^2 \tag{3.1}$$

where \triangle_1 are expressions involving trigonometric functions of v and w. The equations $\triangle_1 = 0$ and $\triangle_2 = 0$ yield the frequencies of longitudinal and torsional vibrations of a rod, equivalent to the spring. Thus, in the zeroth approximation one obtains the same frequency 3/4

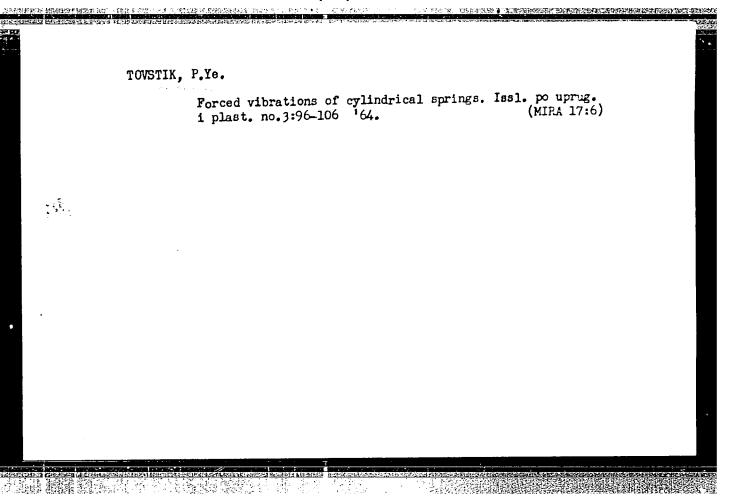
Asymptotic method of integrating ...

S/043/62/007/002/006/007 D407/D301

quencies of eigenvibrations as those of an equivalent rod; the frequencies of the transverse vibrations, however, were found to be multiples. Further, the first- and higher approximations are constructed for the case of longitudinal vibrations and for transverse vibrations with even number of half-waves. Torsional vibrations are treated analogously to longitudinal vibrations. If the longitudinal-and torsional vibrations of an equivalent rod are considered, then an error of the order of μ arises in determining the eigenfunctions and of the order of μ^2 in determining the eigenfrequencies. The approximate solutions are constructed by iteration processes, by a method set forth in the references. The transverse vibrations with odd number of half-waves are considered in an analogous manner. In the case of a thin curvilinear rod, it was found that the eigenvibrations take place in 2 mutually-perpendicular directions only, their frequencies being different. There are 1 figure and 4 Sovietbloc references.

SUBMITTED: November 27, 1961

Card 4/4



N	Problem of the 146-152 '64.	vibration of	a beam in a f	luid. Vest. I	M) 19 E0.19: (MIRA 17:11)

EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k)/EWA(h)/ETC(m)-6 IJP(c) UW/EM 11,580-66 SOURCE CODE: UR/0373/65/000/006/0111/0113 ACC NR: AP6002326

AUTHOR: Towstik, P. Ye. (Leningrad)

ORG: none

TITLE: Free vibrations of a thin spherical dome

SOURCE: AN SSSR. Izvestiya. Mekhanika, no. 6, 1965, 111-113

TOPIC TAGS: shell, spherical shell, shell vibration, shell theory

ABSTRACT: The possible application of asymptotic methods to the solution of the problem of free vibrations of a thin spherical shell is investigated. Axially symmetric vibrations and the general case are studied, with the number of waves along a parallel assumed to be small. After separation of variables, the given problem may be written as the system

$$\Delta U + (2 + \lambda) U + (2 + \sigma) \lambda w = 0$$

$$\Delta^{2}w + 2\Delta w + c^{2} (1 - \sigma^{2} - \lambda) w - c^{2} (1 + \sigma) U = 0$$

$$\Delta V + 2\left(1 + \frac{\lambda}{1 - \sigma}\right) V = 0$$

$$U = \frac{1}{\sin \theta} \left(\frac{\partial (u \sin \theta)}{\partial \theta} + \frac{\partial v}{\partial \phi}\right) - (1 + \sigma) w, \quad V = \frac{1}{\sin \theta} \left(\frac{\partial (v \sin \theta)}{\partial \theta} - \frac{\partial u}{\partial \phi}\right)$$

$$\Delta = \frac{\partial^{2}}{\partial \theta^{2}} + \operatorname{ctg} \theta \frac{\partial}{\partial \theta} + \frac{1}{\sin^{2} \theta} \frac{\partial^{2}}{\partial \phi^{2}}, \quad \lambda = \frac{(1 - \sigma^{2}) R^{2} \rho \omega^{3}}{E}, \quad c^{2} = \frac{12R^{2}}{h^{2}}$$

Card 1/3

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ACC NR: AP6002326

where ϕ and θ are geographic coordinates; u, v, and w are translation projections cn the meridian, parallel, and inner normal directions; ω is the frequency of natural vibration; ?, E, and σ are the density, Young's modulus, and Poisson's coefficient; R and h are the radius and thickness of the shell. Trigonometric wave functions along a parallel are given by

v u $(\varphi,\theta)=u$ $(\theta)\cos m\varphi$, v $(\varphi,\theta)=v$ $(\theta)\sin m\varphi$, w $(\varphi,\theta)=w$ $(\theta)\cos m\varphi$

where m = 0, 1, 2, 3, ... A general expression for u, v, and w is
$$u = -\sum_{j=1}^{n} A_{j}C_{j}y_{jm} + \frac{m}{p_{4}\sin 0}C_{4}y_{4m} \qquad (y_{jm}(0) = P_{v_{j}}^{m}(\cos 0))$$

$$v = \sum_{j=1}^{3} \frac{mA_{j}}{\sin \theta} \cdot C_{j} y_{jm} - \frac{C_{4}}{p_{1}} y_{4m}, \quad w = \sum_{j=1}^{3} C_{j} y_{jm}$$

$$A_{j} = \frac{1}{p_{j}} \left[1 + \sigma + \frac{(2+\sigma)\lambda}{p_{j} - 2 - \lambda_{j}} \right] \quad (j = 1, 2, 3), \ p_{k} = 2 \left(1 + \frac{\lambda}{1 - \sigma} \right)$$

 $A_{j} = \frac{1}{p_{j}} \left[1 + \sigma + \frac{(2+\sigma)\lambda}{p_{j} - 2 - \lambda_{j}} \right] \quad (j = 1, 2, 3), \ p_{i} = 2 \left(1 + \frac{\lambda}{1 - \sigma} \right) ,$ where C_{1} , ..., C_{4} are constants and p_{1} , p_{2} , p_{3} are roots of the equation

$$p^{3} - (4 + \lambda) p^{3} + [c^{3} (1 - \sigma^{2} - \lambda) + 2 (2 + \lambda)] p - c^{3} \{(2 + \lambda) (1 - \sigma^{2} - \lambda) + (1 + \sigma) (2 + \sigma) \lambda\} = 0$$

For selected problem and boundary conditions, the roots of this equation are found Card 2/3

ACC NR: AP6002326

and are used in combination with the spherical function to yield an asymptotic formula having Gamma function members. One example is given for axial-symmetric vibration, and the roots of the vibration equation are found and tabulated for the first six values of \(\lambda \). Orig. art. has: 25 equations and 1 table.

SUB CODE: 13,20/SUBM DATE: 12Apr63/ ORIG REF: 005

ACCESSION NR: AP4018861

8/0043/64/000/001/0042/0057

AUTHOR: Ibragimov, I. A. ; Tovstik, T. M.

TITLE: Evaluation of the spectral functions of one class of stationary random sequences

SOURCE: Leningrad. Universitet. Vestnik. Seriya matematiki, mekhaniki i astronomii, no. 1, 1964, 42-57

TOPIC TAGS: random sequence, stationary random sequence, statistics, spectral analysis, spectral function, stochastic process

ABSTRACT: The paper considers the real, stationary, random sequence {xj}:

$$x_j = \sum_{k=0}^{n} a_{k-j} f_k, \tag{1}$$

where the S_{K} are independent, equally distributed random variables with zero mean and finite variance. The correlation function of the sequence is denoted by R_{IP} the corresponding spectral function by $F(\lambda)$ and the spectral density by $f(\lambda)$. The asymptotic behavior of the evaluation:

1/3/ 2

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ACCESSION NR: AP4018861

is studied for an unknown spectral function $F(\lambda)$, constructed from a sample of size N (x_1, \ldots, x_N) taken from $\{x_j\}$. The measures P_N in $C[0, \pi]$ are generated by the random process $\xi_N(\lambda) = \sqrt{\pi} [F_N(\lambda) - F(\lambda)]$. The main theorem states that as N \rightarrow 00 the sequence of measures P_N weakly converges to the measure P in $C[0, \pi]$ generated by the zero-mean, gaussian, random process $\xi(\lambda)$, under certain assumptions concerning x_j and $f(\lambda)$. In particular:

$$\lim_{N\to\infty} P\left\{ \max_{0 < \lambda < z} \sqrt{N} | F_N^*(\lambda) - F(\lambda) | < z \right\} =$$

$$= P\left\{ \max_{0 < \lambda < z} | \zeta(\lambda) | < z \right\}. \tag{3}$$

This theorem is a further extension of the results obtained earlier by U. Grenander and M. Rosenblatt (Ann. Math. Statistics, 24, 537-558, 1953) and by one of the present authors (Ibragimov). The rest of the paper is devoted to additional proofs of this theorem, the study of the correlation function and the asymptotic normality of the finite distributions of the process $\S N(\lambda)$, and an evaluation of the moments $E[\S N(\lambda_2) - \S a(\lambda_1)] \frac{3}{2}$. Orig. art. has: numerous equations.

Card 2/3/ >

TOVSTOLES, K. F. "Subcutaneous Healing of Kidney Raptores During Butlation Sickness." Dystrophic and necrotic processes are more prenounced in subcutaneously injured kidneys during radiation sickness. The healding process is semewhat slower.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

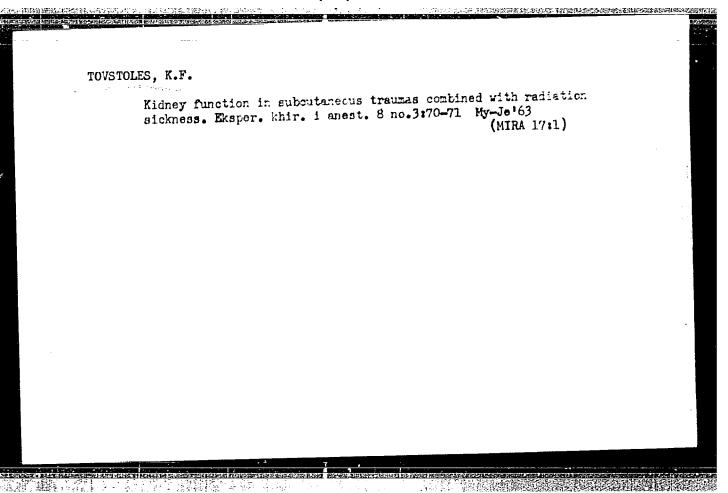
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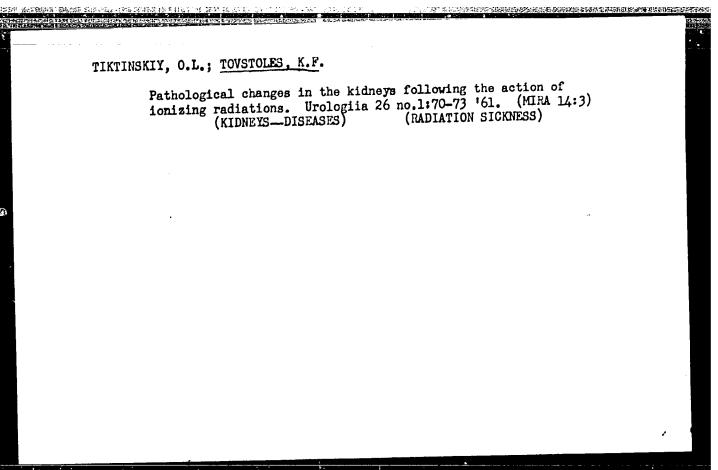
TOVSTOLES, K.F.

Characteristics of healing of subcutaneously injured kidneys in radiation sickness. (Experimental studies). Urologiia no.5:3-6 (MIRA 14:11)

1. Iz kafedry urologii (nach. - prof. G.S. Grebenshchikov)
Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.
Kirova.

(RADIATION SICKNESS) (KIDNEYS-WOUNDS AND INJURIES)





GLUKHAREV, A.G.; TOVSTOLES, K.F.

非活起外点。

Method for intravenous urography in rabbits. Biul.eksp. biol. i med. 51 no.1:116-118 Ja '61. (MIFA 14:5)

1. Iz kafedroy urologii (nachal'nik - doktor med. nauk G.S.Greben-shchikov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova, Leningrad. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Parinym. (KIDNEYS--RADIOGRAPHY)

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GLUKHAREV, A.G.; TOVSTOLES, K.F.

Methods for obtaining urine from rabbits. Lab. delo [7] no.4:
57-58 Ap '61.

1. Kafedra urologii (nach. + doktor meditsinskikh nauk G.S.
Grebenshchtkov) Voyenno-meditsinskoy ordena Lenina akademii imeni
S.M.Kirova.

(CATHETER) (URINE)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

CHERNTSOV, I.A., kandidat biologicheskikh nauk; TOYSTOLES, M.D., redaktor; SHENDAREVA, L.V., tekhnicheskiy redaktor.

[Increasing the buoyancy of birch lumber] Povyshenie splavosposobnosti berezovogo syr'ia. Moskva, Goslesbumizdat, 1949. 9 p. [Microfilm]

(Birch)

(Birch)

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TOVSTOLES Mikhail Dmitrivevich, BERSHADSKIY, A.L. red.; FEDOROV, B.M., red.izd-va.; SHITS, V.P., tekhn.red.

[Cutting wood on slicing machine] Rezanie drevesiny na doshchechkoreznykh stankalh. Moskva, Goslesbumizdat, 1958. 118 p. (MIRA 11:9)

(Woodworking machinery)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

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TOUSTGIES, E.D., otv. red.

[Collection of quientific and technical rate

[Collection of scientific and technical papers] Sornik nauchno-tekhnicheskikh trudov. Moskva, 1963. 126 p. (MIRA 17:9)

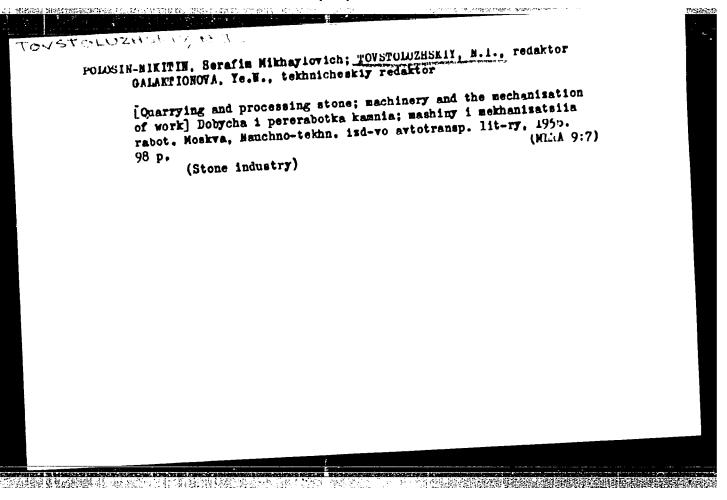
1. Kaluga. TSentral'nyy nauchno-issledovatel'skiy institut
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THE STREET PROPERTY AND AND ADDRESS OF THE PROPERTY OF THE PRO الإينومين المستعرفة والمتاركة والمتا VIDUYEV, N.G.; RAKITOV, D.I.; TOVSTOLES, N.I., redaktor; MINEVICH, I., tekhredaktor [Hydrographic levelling of rivers, canals and reservoirs] Mivelirovanie rek, kanalov i vodokhranilishch. Kiev, Gos. izd-vo tekhn. lit-ry, USSR, 1952. 205 p. [Microfilm] (MLRA 7:10) (MLRA 7:10) (Levelling) (Hydrographic surveying)

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"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756420010-5

NEKRASOV, Vladimir Konstantinovich; RITOV, Maks Mikolayevich; ROYER,

Yergeniy Mikolayevich; TOYSTONIZHSKIY, Mikolay Iosifovich;

ZAMARHATEV,M.S., red.; IVANOV,S.S., red.izd-va; MAL'KOVA,

N.V., tekhm.red.

[Handbook for the road construction technician] Spravochnik

tekhnika-dorozhnika. Izd.3., perer.i dop. Moskva, Nauchnotekhnika-dorozhnika. Izd.3., perer.i shosseinykh dorog

REFER, 1960. 767 p.

(NIRA 14:5)

(Road construction)

TO THE OWNER OF THE PERSON OF

PIGULEVSKIY, Sergey Viktorovich; POPOVKIN, Aleksandr Petrovich;
TOVSTOLUZHSKIY, N.I., inzh., retsenzent; GONCHAROV, A.F.,
inzh., retsenzent; KIMMEL', L.S., red.izd-va; GRECHISHCHEVA,
V.I., tekhn. red.

[Construction and maintenance of 750 mm-gauge logging rail-roads] Ustroistvo i soderzhanie lesovoznykh zheleznykh dorog kolei 750 mm. Moskva, Goslesbumizdat, 1963. 224 p. (MIRA 17:3)

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KROTOV, Vladimir Romanovich; TORGONSKIY, Mikhail Nikolayevich; GASTEV, B.G., doktor tekhn.nauk, prof., retsentent; GAVRILOV, I.I., ingh., retsenzent; TOVSTOLUZHSKIY, N.I., red.; PITERMAN, Ye.L., red., izd-va; GRECHISHCHEVA, V.I., tekhn. red.

[Organization of the construction of logging roads] Organizatsiia stroitel'stva lesovoznykh dorog. Moskva, Goslesbumizdat, 1962.
262 p. (MIRA 16:6)

1. Zaveduyushchiy kafedroy sukhoputnogo transporta lesa L'vovskogo lesotekhnicheskogo instituta (for Gastev). 2. Nachal'nik mekhanizatsii stroitel'stva lesozagotovitel'nykh predpriyatiy TSentgal's nogo nauchno-issledovatel'skogo instituta mekhanizatsii i energetiki lesnoy promyshlennosti (for Gavrilov).

(Forest roads--Design and construction)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

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NEKRASOV, Vladimir Konstantinovich; RITOV, Maks Nikolayevich; ROYKR, Yevgeniy Nikolayevich; TOVSTOLUZHSKIY, Nikolay Iosifovich; ZAMAKHAYEV, M.S., red.; IVAHOV, S.S., red.izd-va; MAL'KOVA, N.V., tekhn.red.

[Handbook for the road technician] Spravochnik tekhnika-dorozhnika. Izd.3, perer. i dop. Moskva, Nauchno-tekhn. izd-vo M-va avtomobil'nogo transporta i shosseinykh dorog (MIRA 14:4) RSFSR, 1960. 767 p. (Road construction)

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TOUSION Neumovich; CONCHAROV, Anatoliy Filippovich; TOVSTOLUZHSKIY,
N.I., red.; SARMATSKAYA, G.I., red.izd-va; ERATISHKO, L.V., tekhn.red.

[Building roads of woodshil'nykh dorog s dereviannym pokrytiem.

Moskva, Goslesbumizdat, 1957. 77 p. (MIRA 11:5)

(Forest construction)

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TOUSTOLES, Mikolay Il'ich. Prinimali uchastiye: DIKARWY, V.V., inzh.;

GORBIK, M.D., inzh.; POGOHIY, V.S., inzh. ALEKSAHDROVSKIY, A.,

red.; GOKHMAN, S., tekhn.red.

[Brief manual of engineering geodesy] Kratkii spravochnik po
inzhenernoi geodesii. Kiev, Gos.izd-vo lit-ry po stroit. i
inzhenernoi geodesii. Kiev, Gos.izd-vo lit-ry po stroit.

(MIRA 14:3)

(Surveying)

ATAMALYAN, E.G.; KONSTANTINOV, V.I.; KOMAROV, V.I.; LAPSHIN, N.S.; SIMONOV, A.F.; TOVSTOLES, V.Ya.; ENDINA, S.M.; FONCMARENKO, V.K., prof., red.; KHEUSTALEVA, N.I., red.; GOROKHOVA, S.S., tokhn. red.

[Methodology for solving general electrical engineering problems] Metodika resheniia zadach po obshchei elektrotekhnike. [By] E.G. Atamalian i dr. Pod red. V.K. Fonomarenko. nike. [By] E.G. Atamalian i dr. Pod red. V.K. Fonomarenko. Moskva, Vysshaia shkola, 1962. 167 p. (MIRA 15:12) (Electric engineering)

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2000年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年

TOVSTOLES, M.D., redaktor; VORORETSKAYA, L.V., tekhnicheskiy redaktor

Programme and the state of the

[1] \$P\$ | \$

[Transactions of the Central Scientific Institute of Research for the Mechanical Processing of Lumber] Trudy Tsentral nogo nauchno-issledo-vatel skogo instituta mekhanicheskoy obrabotki drevesiny.

(MIRA 8:10)

Moskva, Goslesbumizdat, 1950. 241 p.

1. Moscow. Tsentral'nyy Nauchno-issledovatel'skiy institut mekhaniches-koy obrabotki drevesiny. (Lumber)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

OBRAZTSOV, Sergey Aleksandrovich; TOVSTOLES, M.D., redaktor; SHAKHOVA,
L.I., redaktor; KARASIK, B.F., temnicasskikh redaktor

[Increasing production in sawmills and woodworking plants] Intensifikatsiia lesopil'no-derevoobrabatyvaiushchego proizvodstva.
sifikatsiia lesopil'no-derevoobrabatyvaiushchego proizvodstva.
(MIRA 8:6)

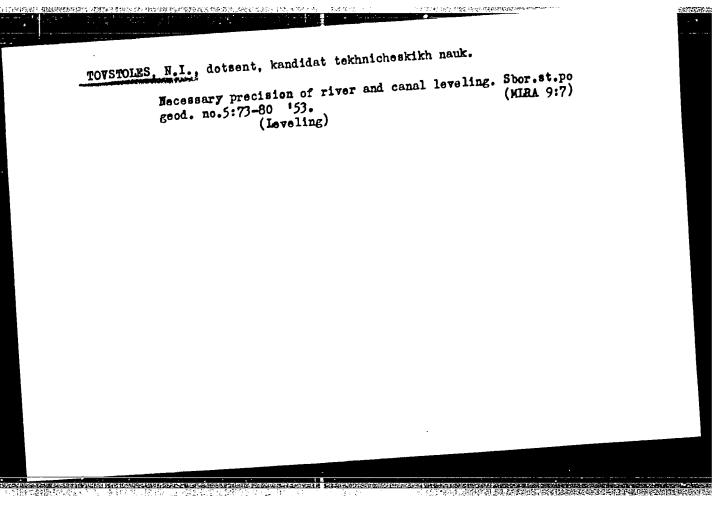
Moskva, Goslesbumizdat, 1955. 58 p.
(Sawmills) (Woodworking industries)

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TOVSTOLES, Nikolay Il'ich. Prinimali uchastiye: DIKAREV, V.V., ass.; CORBIK, M.D., dots.; ALEKSANDROVSKIY, A.Ya., red.; YEREMINA, I.A., tekhn. red.

[Brief textbook in engineering geodesy] Kratkii spravochnik po inzhenernoi geodezii. zd.2., ispr. i dop. Kiev, Gosstroiizdat, USSR, 1963. 318 p. (MIKA 17:3)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

PORT OF THE PROPERTY OF THE PR

TOVSTOLES, Nikolay Il'ich, professor, doktor tekhnicheskikh nauk; MAL'-CHEVSKIY, V., vedushchiy redaktor; GOLOVCHENKO, G., tekhnicheskiy redaktor

[Connecting the alignment to triangulation points] Priviazka trassy k trianguliatsionnym punktam. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1956. 121 p.

(Triangulation)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

- 1. TOVSTOLES, T. A.
- 2. USSR (600)
- 4. Mites
- 7. Using an infusion of onion scales to control red spider. Sad i og No 12 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

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- 2. USSR (600)
- 4. Insecticides
- 7. Using an infusion of onion scales to control red spider. Sad i og. No. 12 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

TOVSTOLES, V.I.

Electrothermometric apparatus with mirror galvanometer. Klin.med.,
Moskva 18 no.10:66-67 Oct 50. (CIML 20:4)

1. Of the Central Institute of Health Resort Therapy of the Ministry of Public Health USSE.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

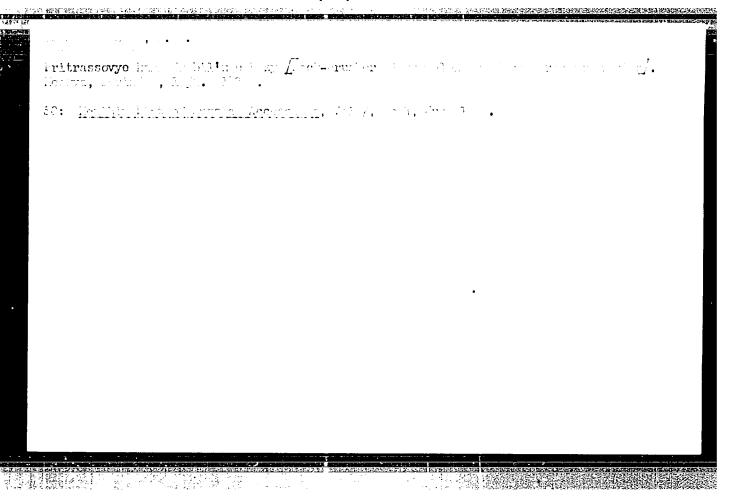
On the most efficien	t depth for aeration tanks.	. Vod. i san tekh.
i no.2:31-32 My'55.	(WaterAeration)	(MIRA 8:11)
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·	"Principles and technics of electrocardiography" by W.G. Mikulin. Reviewed by V.IA. Tovstoles. Klin.med. 36 no.8:157-158 Ag '58
	(MIRA 11:9) 1. TSentral'nyy institut usovershenstvovaniya vrachey (for Tovstoles) (ELECTROCARDIOGRAPHY)

TOVSTOLIS, Nikolay Il'ch; DOTSENKO, M., redaktor; NOVIK, O., tekhnichniy [The shape and size of the earth] Forms i rozmiry zemli. Kyiv. Derzh. vyd-vo tekhn. lit-ry, URSR, 1956. 33 p. (MIRa 10:4) (Earth--Figure)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

Road	Fritrassovye Kamnedrobil'nye Bazy (Rock Crushing Flants Along Construction Routes) Moskva, Dorizdat, 1952.		
	141 p. Illus., Diagrs., Tables.		



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TOVSTGLUZICKIY; N. I.

Dpravochnik Tekhnika-Dorozhnika (Reference Book for the Road Fechnician, by)
V. K. Nakika-Di, R. R. Elfoy i R. I. TOVSTOLUZECKIY. Izd. 2., perer. i log. Roskva,
Dorizdat, 1953.
591 p. Illus., Diagrs., Raps, Tables
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TOVSTOLUZHSKIY, N.I.; ARSEN'YEV, A.A., redaktor; GALAKTIONOVA, Ye.N., tekhnicheskiy redaktor

[Rock crushing plants along road construction routes] Pritrassovye kamnedrobil'nye basy. Moskva, Izd-vo doroshno-tekhn. litry Gozhosdora MVD SSSR, 1952. 141 p. [Microfilm] (MLRA 7:10) (Crushing machinery) (Road construction)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

NEKRASOV, Vladimir Konstantinovich; RITOV, M.N.; TOVSTOLUZHSKIY, N.I. [Highway engineer's reference book] Spravochnik tekhnika-dorozhnika. Izd.2., perer. i dop. Moskva, Izd-vo doroshno-tekhn. lit-ry. 1953. 591 p. (MIRA 6:10) (Road construction)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

8/103/60/021/05/04/013 B007/B011

AUTHOR:

Tovstukha, T. I. (Moscow)

TITLE:

Effect of Random Noises on the Stabilized Mode of Operation of a Step Extremum System With a Parabolic

Characteristic of the Object

PERIODICAL:

Avtomatika i telemekhanika, 1960, Vol. 21, No. 5,

pp. 575 - 584

TEXT: The author of the present paper investigated a step extremum system with the parabolic characteristic y=x² of the object. The task is that of finding the minimum of the characteristic and to maintain it. The problem is the same as in the paper by A. A. Fel'dbaum (Ref. 1). All quantities were investigated at discrete instants t=nT (n=0, 1, 2, ...). T is the time between two successive working steps or the duration of a cycle. Fig. 1 shows a scheme of the extremum system investigated. It is further shown that the searching for the minimum may be regarded as a discrete Marcov process (Ref. 2). An equivalent-circuit

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Effect of Random Noises on the Stabilized Mode of Operation of a Step Extremum System With a Parabolic Characteristic of the Object S/103/60/021/05/04/013 B007/B011

diagram of such a process is set up and shown in Fig. 2 for greater convenience. Formula (10) is written down for the expectation value of the initial quantity $M_n \left[y \right]$. Formulas (16) - (19) are derived. The probabi-

lities of certain conditions in the stabilized mode of operation are thereby given to completeness. Formula (21) is then derived for the expectation value with a stabilized mode of operation. Next, the case of uniform distribution of the probability density is examined, and it is shown that the most expedient working mode in this case is with small steps. A. A. Fel'dbaum posed the problem under discussion and assisted the author with advice. S. Ya. Rayevskiy is mentioned for having discussed the results obtained. There are 5 figures and 2 references:

1 Soviet and 1 English.

SUBMITTED:

October 21, 1959

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Card 2/2

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Tovstukha, T.I. (Moscow)

TITE :

On the choice of parameters of the control part of

a gradient system of automatic optimization

· . H D (CAL)

Avtomatika i telemekhanika, v. 22, no. 8. 1961.

1027-1037

By directly solving a system of difference equations, concrete results are obtained which permit choosing the working parameters a and a_0 for any number of independent inputs; (a - the coefficient giving the working step, a_0 - the trial noise); a and a_0 have to be determined in accordance with the permissible sufficiently small steady-state values of the mathematical expectation my of the output variable y. For the expectation

 $m_y = \sum_{i=1}^{m} (m_{x_i}^2 + D_{x_i})$ (1.6)

Hence it is required to determine $m_{\mathbf{x}}$ and $b_{\mathbf{x}}$ for each input variable; Card 1/4

21,838 5/103/61/022/008/006/015 D274/D302

On the choice of parameters

(D is the dispersion). For the case of one input, both $m_y(a,a_0)$ were calculated which makes it possible to take into account not only my, but also the value of the mean spread with respect to my. A criterion is given which characterizes optimization of the system with respect to time: A.A. Fel'doaum (Ref. 2: Statisticheskaya teoriya gradiyentnykh sistem avtomaticheskoy optimizatoli pri kvadratichnoy kharakteristike ob''yekta. Avtomatika i telemekhanika, v. 21, ichnoy kharakteristika i ichnoy kharakteristika i ichnoy kharakteristika i ichnoy kharakteristika i ichnoy kharakteristika ichnoy kharakt equations, expressions for $m_{\boldsymbol{X}}$ and $D_{\boldsymbol{X}}$ are obtained; passing to the limit for $n \to \infty$, one obtains:

$$\frac{(1-a\delta)}{m}$$

$$D_{\mathbf{X}} = \mathbf{0}^{2} + \mathbf{a} \mathbf{\delta}$$
 (2.7)

and

$$m_{x} = \frac{(1 - a\delta)^{2}}{4a\delta}$$

$$m_{x} = \frac{\sigma^{2}}{8\delta^{2}} \frac{a\delta}{1 - 2a\delta}$$

$$m_{y} = \gamma^{2} \left(\frac{1 - a\delta}{4a}\right)^{2} + \frac{\sigma^{2}}{8\delta^{2}} \frac{a\delta}{1 - 2a\delta}$$

$$(2.8)$$

 $D_y = M[(y - m_y)^2] = M(x^4) - (M(x^2))^2$.

Card 2/4

24838

S/103/61/022/008/006/015 D274/D302

On the choice of parameters...

Here: n is the cycle number, $\delta = a_0 - \frac{\gamma}{4}$, γ is a factor which gives the rate of displacement of the characteristic due to noise; σ is given by Eq. (2.7). Graphs are given where a is plotted against m_y and D_y , respectively, for the case $\gamma / \sqrt{\sigma} = 0.2$. These graphs show that under certain conditions for the steady-state values of the mathematical expectation and the dispersion or the output variable of the system, the possible values of the working parameters can be determined if γ and σ are known. In accordance with the value of m_y [n], the steady-state process can be either aperiodic or periodic. A criterion is set up for the speed of the steady-state process:

 $I = \lim_{n \to \infty} \sum_{k=0}^{n} (m_y [k] - m_y)^2$ (2.12)

The system with minimum I_0 is considered as optimal with respect to time. Case II: m independent inputs. The expressions for m_1 and D_1 are: $Y \left\{ \left[Y \left(1 - a\delta (1-2m) \right) + 1 + 3a\delta \right] - i\frac{4a\delta}{3a\delta} \right\} (3.10)$

 $m_i = \frac{\gamma}{4aa_0} \left\{ \left[\frac{\gamma}{4\delta} \left(1 + \frac{a\delta(1-2m)}{m} \right) + 1 + \frac{3a\delta}{m} \right] - i \frac{4a\delta}{m} \right\}$ (3.10)

Card 3/4

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On the choice of parameters...

$$D_i = D_x = \frac{a^2 \sigma^2}{8m} \left[\frac{1}{a\delta(1-2a\delta)} + \frac{m-1}{aa_0(1-2aa_0)} \right],$$
 (3.11)

Hence the dispersion is the same for all inputs; m_y is found from (1.6) and the last two formulae. Graphs are given $(m_y/\sigma^2,\gamma^2)$ versus a $\gamma/4$, with m=1,2,3,10, and various a_0). These show that the value of the mathematical expectation of the output variable increases with the number of inputs (for a fixed a). The above method of calculating m_y can be readily extended to a system with m dependent inputs, provided the relation

$$y[n] = \sum_{i=1}^{m} x_i^2[n] + b \sum_{i \neq j} x_i[n] x_j[n].$$

holds. There are 6 figures and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc.

SUBMITTED: July 25, 1960

Card 4/4

等於集團主副國(日本)1.100 - 北京教文学》(1912年11)

S/271/63/000/001/013/047 D413/D308

AUTHOR:

Tovstukha, T.I.

TITLE:

Determination of the optimal parameters of stepand gradient-type extremal systems in the presence

of noise fluctuations

PERIODICAL:

Referativnyy zhurnal, Avtomatika, telemekhanika i vychislitel'naya tekhnika, no. 1, 1963, 41, abstract 1A226 (In collection: Avtomat. regulirovaniye i upr.,

M., AH SSSR, 1962, 423-425)

TEXT: The author considers the determination of the optimal parameters of step- and gradient-type systems having a parabolic characteristic y = x². The task of the system is to search automatically for the minimum of the characteristic and to hold it. It is shown that given limits to the steady-state values of the mathematical expectation and dispersion of the output quantity of a gradient-type automatic optimization system, one can determine the possible values of the working parameters of the system.

/ Abstracter's note: Complete translation /

Card 1/1

POGONYAYLO, G.F., kand. veter. nauk; ANTIPIN, V., veterinarnyy via 5.

TOVSTUKHO, K., veterinarnyy vrach; KONTYFV, I.M., veterinarnyy vrach

Immunization of young pige against paratyphoid fever at the early age. Veterinariia 41 no.7,42-45 Jl *64. (MR4 18:11)

1. Leningradskiy nauchno-issledovateliskiy veterinarnyy isstitus (for Pogonyayle). 2. Kemerovskaya oblastnaya veterinarnyo laboratoriya (for Antipin, Tovstukho). 3. Sebezhakoya proizvodstvennoya upravleniya, Pskovskoy oblasti (for Kenevay).

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420010-5"

18.8200 1413, 1454

8/123/61/000/005/002/017 A004/A104

AUTHOR:

Tovstykh, Ye. V.

TTTLE:

On the problem of increasing the fatigue strength of CXJ-4 (SKhL-4)

ships hull steel in the presence of stress concentrators

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 5, 1961, 15, abstract

5A130. (Tr. Leningr. korablestroit. in-ta, 1959, no. 29, 231-237)

The effect of the following factors on the fatigue strength of SKhL-4 TEXT: steel was investigated experimentally: welding a rigidity rit to the specimen (the welding seam is the stress concentrator); surface cold-working of the specimen with the aid of a pneumatic hammer and a shot-blast apparatus; mechanical working of the seam. The comparison was effected by the number of cycles endured up to destruction under constant stress. The welding on of ribs lowers the strength of SKhL-4 steel 2-3 times. Cold working, particularly by the shot-blast method increases the fatigue strength considerably. The mechanical working of the seam is less effective. Under production conditions at shipbuilding plants, the most expedient method of increasing the fatigue strength in the welding zone is the two-sided shot-blast cold working.

I. Tryanin the two-sided shot-blast cold working.

Card 1/1

[Abstractor's note: Complete translation] Teninge i Shipbuilding Institute,

VEYNGARTEN, Abram Mikhaylovich, kand. tekhn.nauk; DELLE, Vasiliy
Adoliyevich, prof., doktor tekhn. nauk; NOSKIN, Aba
Vladimirovich, kand. tekhn. nauk; SOKOLOV, Nikolay
Nikolayevich, kand. tekhn. nauk; TOVSTYKH, Yevgeniy
Vasil'yevich, kand. tekhn. nauk; SHPEYZMAN, Veniamin
Matveyevich, kand. tekhn. nauk; LEBEDEV, K.P., kand. tekhn.
nauk, retsenzent; ALESHIN, D.V., inzh., retsenzent; MES'KNI,
V.S., doktor tekhn. nauk, nauchnyy red.; KLIORINA, T.A.,
red.; TSAL, R.K., tekhn. red.; KRYAKOVA, D.M., tekhn. red.

[Shipbuilding steel]Sudostroitel'naia stal'. [By] A.M. Veingarten i dr. Leningrad, Sudpromgiz, 1962. 303 p. (MIRA 15:11) (Shipbuilding materials) (Steel, Structural)

"APPROVED FOR RELEASE: 04/03/2001 CIA-RD

CIA-RDP86-00513R001756420010-5

ACCESSION NR: AP4041374

5/0048/64/028/006/1048/1050

AUTHOR: Tovstyuk, K.D.; Gavaleshko, N.P.; Rarenko, I.M.

TITLE: Galvanomagnetic and thermoelectric effects in HgTe /Report, Third Conference on Semiconductor Compounds held in Kishinev 16 to 21 Sep 19637

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.6, 1964, 1048-1050

TOPIC TACS: semiconductor property, galvanomagnetic effect, Hall effect, Nernst-Ettinghausen effect, mercury telluride

ABSTRACT: Electric conductivities, Hall coefficients, magnetoresistivities, and Nernst-Ettinghausen coefficients were measured at temperatures from 80 to 480°k for single crystals and polycrystalline samples of n- and p-type HgTe. Some of the results are presented graphically. The material was produced by fusing spectroscopically pure Hg and Te in evacuated quartz ampoules and subjecting the product to zone refining and prolonged anneal in mercury vapor. This procedure yielded n-type material. Specimens with p-type conductivity were obtained by doping with Ag, Au or Cu. Specimens were obtained having carrier concentrations from 1016 to 1022 cm⁻³, and in which the Hall constant changed sign at temperatures from the very lowest to room

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ACCESSION NR: AP4041374

temperature. No measurements were performed at temperatures above 480°K because indications of decomposition were observed at this temperature. When the impurity content was not too great, the resistivity varied with temperature in the manner that is usual for semiconductors. A transition to metallic conductivity was observed with increasing impurity content. The Hall constant increased with decreasing temperature for n-type materials, and for p-type materials it decreased and changed sign. The Hall constant was measured at inductions up to 18 kGs; it varied considerably with induction and in some cases passed through a maximum. This behavior is regarded as suggesting a complex band structure and proving the presence of at least three types of carrier (electrons and two types of hole). The Nernst-Ettinghausen coefficients were positive for p-type materials, and for n-type materials they changed sign between 200 and 280°K and were positive at higher temperatures. The temperature dependence of the effective mass of the electrons was calculated from the thermal emf; the results indicate, in agreement with M.Rodot (Ann.Phys., Ser.A, No.374,1960) and G.Popovich (Rev.Phys.8, No.3, 1963), that the conduction band is not parabolic. Orig.art.has: 1 formula and 3 figures.

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ACCESSION NR: AP4040932

8/0185/64/009/006/0629/0641

AUTHOR: Tovstyuk, K. D., Tarnavs'ka, M. V. (Tarnavskaya, H. V.)

TITLE: Symmetry of energy sones of charge carriers in crystals of cubic syngony [symmetry]

SOURCE: Ukrayina'ky*y fizy*chny*y zhurnal, v. 9, no. 6, 1964, 629-641

TOPIC TAGS: Symmetry, crystallography, space group, symmetry points, cubic symmetry, cubic syngony, brillouin sone, energy band structure, band structure, crystal symmetry, group theory

ABSTRACT: Group theory is used to investigate the sone structure of crystals of cubic syngony: space groups T, 0, Td and Th. The brillouin sone for groups of simple cubic syngony (T1, T4, O1, O2, O6, O7, T1, T4, T1, T2, T6) is given in Figure 1 of Encl. O1. The brillouin zone for groups of face-centered cubic syngony (T2, O3, O4, T2, T3, T4) is given in Figure 2 of Encl. O1; that for groups of body-centered cubic syngony (T3, T5, O5, O8, T3, T6, T5, T7) is given in Figure 3 of Encl. O1. Extensive tables give points of sero slope of the energy bands for all these groups. Symmetry notation aggrees with the symbology of O. V. Kovalev Neprivodimy*ye Predstavleniya Prostranstvenny*kh Grupp (irreducible representations

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BOURCE: AN 11 1y TOPIC TAGS ABSTRACT: 293 to 60 Clements	sssr. Izvestiya. Sollity, Zi magnetic susceptibility, Zi The magnetic susceptibility The magnetic susceptibility O'K. The material was synthes in evacuated quartz ampoules in evacuated quartz ampoules	Report, Third Conference on Semicon 1963 cheskaya, v.28, no6.1964, 1051-1052 cheskaya, v.28, no6.1964, 1051-1052 ino compound of ZnTe was measured at temperature to seminate the spectroscopical trace by heating the spectroscopical trace to have the sphalerite to sund. The samples for measurement were after being cut and polished, they after being cut and polished, they in film of tellurium was removed with a modified Gouy method formed with a modified Gouy method formed with a modified Gouy method formed with a modified gouy method to temperature and equal to spendent of temperature and equal to	as from ly pure the Bridg- structure; re cylinders were etched th HCl. The
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TOUSTEUR, K.D.

Name: TOVSTYUK, K. D.

Dissertation: Toward a quantum theory of semiconductors of the Germanium

Degree: Cand Phys-Math Sci

Min Higher Education UkSSR, Chernovtsy State U

1956, Chernovtsy

Source: Knizhnaya Letopis', No 47, 1956

Tovstyllk, K.D.

TITLE

57-8-15/36 Samoylovich, A.G., Tovstyuk, K.D. The Energy Spectrum of Current Carriers in Semi-

(Energeticheskiy spektr nositeley toka v poluprovodnikakh conductors of the Germanium Type. Zhurnal Tekhn. Fiz., 1957, Vol. 27, Nr 8, pp.1753-1763

ABSTRACT

PERIODICAL

Here the authors try to combine two of the most important ideas of modern semiconductor theory: renunciation of the single-electron approach and the investigation of the problem from the point of view of the multi-electron theory within the frame of the quasi-particle method, and secondly the taking into account of the nature of chemical compound. A model is proposed which, on the occasion of the investigation of the energy spectrum, makes possible to respect the nature of the chemical compound. The authors show that the nodal lattice is essential for the electrons and the ruled lattice for the holes. The results of the investigations showed that it is just this with which the characteristic properties of electrons and holes in semiconductors of the Germanium type are connected. The energy spectrum of the current carriers in Germanium and Si is investigated. The authors show that the

CARD 1/2

CIA-RDP86-00513R001756420010

30622 3/058,761/000/008/030/044 AUSB/A101

24,7700 (1139,1144,1385) AUTHOR:

Tovatyuk, K. D.

TIME

Hole interaction with optical vibrations in germanium and silicon

PERIODICAL: Referativnyy zhurnal, Fizika, ro. 8, 1907, 250, abstract 8E283 ("Nauchn. yezhegodnik za 1957 g. Chernovinek, un. h., Chernovisy, 1958, 474-475)

TEXT: On the basis of an earlier proposed model (PZnRiz, 1958, no. 4, abstract 8575), the temperature dependence of home mobility in Ge and Si, which is stronger than for electrons, is qualitatively explained on the assumption that in moving along the interstices, holes interact sharply with those lattice vibrations incident to which the angle between the interstitiel axes changes (the overlapping of wave functions varies sharply with these vibrations, which are optical; therefore hole interaction with them mist be strong). On the other hand, the influence of angular vibrations on the electrons moving along the lattice points is insignificant, in accordance with which one observes different temperature dependences for electron mobility and note mobility.

[Abstracter's note: Complete translation]

Yu. Julyayav

Card 1/1

S/058/61/000/010/079/100 A001/A101

24,7700

Tovstyuk, K.D., Ovozdovskiy, I.V.

TITLE:

AUTHORS:

On the problem of hole scattering in germanium

PERIODICAL: Referativnyy zhurnal. Fizika, no. 10, 1961, 262, abstract 10E270 ("Nauchn, yezhegodnik za 1957, Chernovitsk, un-t", Chernovitsk, 1958, 475 - 476)

A relation has been found between the relaxation time for hole scat-TEXT: tering by phonons and the quasi-momentum of the holes on the basis of the model proposed earlier (RZhFiz, 1958, no. 4, 8575). Calculations are performed using the method of approximate second quantization, taking into account interaction of only adjacent elements. Relaxation time proved to be inversely proportional to the square root from energy. It is also shown that holes interact with both longitudinal and transverse phonons, and these interactions are of the same order of magnitude.

Yu. Gulyayev

[Abstracter's note: Complete translation]

Card 1/1